PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

To Be Assigned

Filing Date:

Herewith

Applicant:

Oberg, Mats

Group Art Unit:

To Be Assigned

Examiner:

To Be Assigned

Title:

METHOD AND APPARATUS FOR DC-LEVEL

CONSTRAINED CODING

Attorney Docket:

MP0085C1

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. ___ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. X Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

<u>U.S. Serial Number</u> 10/053,885

111.

U.S. Filing Date January 16, 2002

	CBecause the present appropriate copies of the U.S. patents or to the attached Form 1449 § 1.98(a)(2)(i). Any foreign put the attached Form 1449 are expressions of the stracked Form 1449 are expressions.	are enclosed pursuant to the patient documents or non-pate nclosed herewith.	e waiver of 37 C.F.R. ent literature listed on
	DThis is a PCT applicate States. A copy of the Internation information. The documents on the attached Form-1449 from the any patent resulting from this was from the US, EPO, or should have been supplied to believed to be in the file of the	listed on the International Section Consideration by the Examplication Since the International Section	earch Report are listed niner and for listing on national Search Report es of these references eral agreement and are
11.	CONCISE EXPLANATION O	F THE RELEVANCE (check a	at least one box)
	A. X Except as may be indo	licated below in (B), all of the English language (concise exp	patents, publications or lanation not required).
	other information listed that C.F.R. § 1.98(a)(3)):	on of the relevance of each is not in the English languag	g is as ionone (see ex
	1See the attac counterpart for 2English transla 3Other:	ched foreign patent office or reign application: ations are provided:	communication from a
	C The following addiconsideration.	tional information is provide	ed for the Examiner's
IV.	CROSS REFERENCE TO I	RELATED APPLICATION(S)	
	contain(s) subject matter t	advised that the following conthat may be related to the position(s) to the Examiner's fidentiality provisions of 35 U.	attention, Applicant(s)
	<u>Serial No.</u> 10/053,885	Filing Date January 16, 2002	<u>Art Unit</u> 2819

THIS IDS IS BEING FILED UNDER ٧.

A. X 37 C.F.R. § 1.97(b): (check <u>only</u> one box)

1. X within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
2 within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
3 before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
4 before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.
B 37 C.F.R. § 1.97(c): (check <u>only</u> one box)
 before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
1 No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
2 See the certification below. No fee is required.
C 37 C.F.R. § 1.97(d):
 after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
1 See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
The undersigned hereby certifies that:
Aeach item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. §

VI.

1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or

B. ____ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C.___Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

- A. ____ A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. ____ Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

Dated: 10/28/03

By: Mulul & Harry Michael D. Wiggins

Reg. No. 34,754

MARVELL SEMICONDUCTOR, INC. 700 FIRST AVENUE, MAIL STOP 509 SUNNYVALE, CA 94089

408-222-2500

Form PTO-1449 (REV 8-83)	DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	SERIAL NO. Not Yet Assigned	ATTY
(KE V 6-65)		APPLICANT	hora Mata

DOCKET NO. MP0085

INFORMATION DISCLOSURE CITATION (USE SEVERAL SHEETS IF NECESSARY) PAGE 1 OF 2

GROUP: Not Yet Assig FILING DATE

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			U.S. PATENT	DOCUMENTS			FILING
E.I.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS	DATE
W.	AA	6184806	2/6/01	Patapoutian et al.			3/13/98
~ 1	AB	6097320	8/1/00	Kuki et al.			
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12 /	AE	5757822	5/26/98	Fisher et al.			8/24/94
fw	AF	5636933	6/3/97	Fitzpatrick et al.			1/30/95
few	AG	5396239	3/7/95	McMahon et al.			7/2/92
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the	AK	5537424	7/16/96	Karabed et al.			8/12/94
yw			FOREIGN PA	TENT DOCUMENTS			
E.I.	ļ	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLAS	12/11/01
HW	AL	EP1058432 A2	6/12/00	US			n/a
	AM						
	AN						
	AO						
	AP						
	AQ			THOS TITLE DATE PE			

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.) Nan-Hsiung Yeh, " Equivalence of Signal Processing in Perpendicular and Longitudinal Recordings" Digests of PMRC 2000, The Fifth Perpendicular Magnetic Recording Conference, (Sendai, Japan) October 23-26, AR 2000, page 231. AT DATE CONSIDERED **EXAMINER**

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include conv of this form with next communication to the applicant

				Application/Control No.	Applicant(s)	
				10/053,885	Oberg	
		Notice of Reference	s Cited	Examiner	Art Unit	Page 1 of 1
				Howard L. Williams	2819	
			U.S. P	ATENT DOCUMENTS		
		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name		Classification 341/59
†	Α	US- 6,204,781 B1	20 Mar. 2001	Aziz et al.		
1	В	US-				
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FOREIGN PATENT DOCUMENTS

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L		A his furnished with this Office action. (See MPEP § 707.05(a).)

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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